

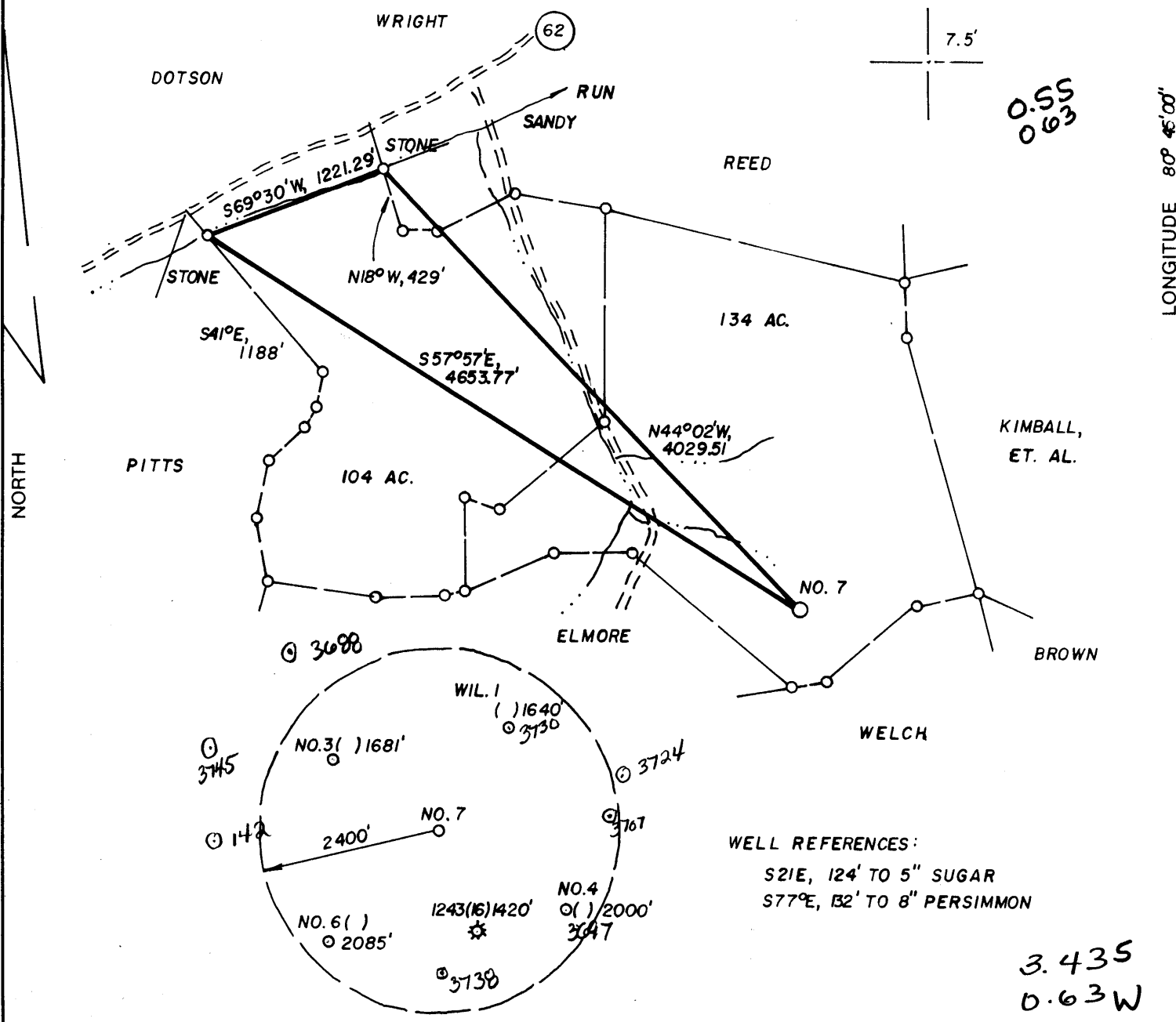
June 9/26/89

LATITUDE 39°22'30"

3400'

020'

LONGITUDE 80°46'00"



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 3575'  
W. OF LOC. AT ELEV. 1307'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.  
 (SIGNED) [Signature]  
 R.P.E. \_\_\_\_\_ L.L.S. NO. 674  
**STEPHEN D. LOSH**

STEPHEN D. LOSH  
 LICENSED  
 674  
 STATE OF WEST VIRGINIA  
 PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE JULY 24, 19 89  
 OPERATOR'S WELL NO. SANDY 7  
 API WELL NO. 47-017-3747  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1062' WATER SHED SANDY RUN  
 DISTRICT GRANT 3 +15' COUNTY DODDRIDGE  
 QUADRANGLE WEST UNION 7.5 WU/EC

SURFACE OWNER DARRELL McINTYRE ACREAGE 134  
 OIL & GAS ROYALTY OWNER WILLIAM SANDY LEASE ACREAGE 637  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BENSON ESTIMATED DEPTH 5400'  
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT CHARLES CANFIELD  
 ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R  
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

SEP 29 1989

H.T. HALL 48673 FORM WW-6

COUNTY NAME PERMIT

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: SANDY, I.K. HEIRS Operator Well No.: SANDY #7

LOCATION: Elevation: 1062.00 Quadrangle: WEST UNION

District: GRANT County: DODDRIDGE  
Latitude: 3020 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 3400 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: STONEWALL GAS CO.  
P. O. BOX 1575  
RICHMOND, VA 23213-1575

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD  
Permit Issued: 09/26/89  
Well work Commenced: 10-13-89  
Well work Completed: 10-18-89  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5281  
Fresh water depths (ft) 56

Salt water depths (ft) 650

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	127	127	85 SKS
8 5/8	1295	1295	340 SKS
4 1/2	5209	5209	670 SKS

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5078  
Gas: Initial open flow \* \_\_\_\_\_ MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 696 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 1 Hours  
Static rock Pressure 1700 psig (surface pressure) after 168 Hours

Second producing formation N/A Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

\* UNABLE TO DETERMINE DUE TO INJUN FORMATION FLOWING 381 MCF/D NATURAL

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: STONEWALL GAS CO.

By: [Signature]  
Date: NOVEMBER 15, 1989

FRAC WATER STAGE 1 DATE OCTOBER 30, 1989

ZONES	PERFS	HOLES	BBL	SAND	BD	ISIP
BENSON	5078-5084	19	700 BBL	60,000	2070 PSI	1670 PSI

FORMATION	COLOR	HARD/SOFT	TOP FT	BOTTOM FT	REMARKS
SUB	TAN	SOFT	0	10	
CLAY	BROWN	SOFT	10	15	½" WATER @ 56
SHALE & RR	GREY	HARD	15	45	HOLE DAMP @ 650'
SAND	TAN	SOFT	45	56	GAS CK @ 1997 N/S
SAND & SHALE	GREY	HARD	56	80	GAS CK @ 2181 8/10 2" MERCURY
RR & SHALE	REDDISH	HARD	80	130	GAS CK @ 2213 10/10 2" MERCUR
SAND & SHALE	BROWN	SOFT	130	175	GAS CK @ 2801 8/10 2" MERCURY
SAND	TAN	SOFT	175	201	GAS CK @ 4635 8/10 2" MERCURY
SAND & SHALE	GREY	SOFT	201	540	GAS CK @ 5041 4/10 2" MERCURY
SHALE & RR	GREY	HARD	540	598	GAS CK @ 5104 6/10 2" MERCURY
RR	RED	HARD	598	604	
SAND & SHALE	GREY	SOFT	604	970	
RR	RED	SOFT	970	1064	
SAND & SHALE	GREY	SOFT	1064	1865	
L-LIME	GREY	SOFT	1865	1870	
SAND & SHALE	GREY	HARD	1870	1900	
RR	RED	HARD	1900	1925	
SAND & SHALE	TAN	HARD	1925	1940	
RR	RED	HARD	1940	1995	
SAND & SHALE	GREY	SOFT	1995	2025	
B-LIME	BROWN	SOFT	2025	2116	
INJUN	BROWN	SOFT	2116	2130	
SAND & SHALE	GREY	HARD	2130	2755	
GORDON	GREY	SOFT	2755	2805	
SAND & SHALE	GREY	SOFT	2805	3580	
SHALE & SAND	TAN	HARD	3580	4595	
RILEY	BROWN	HARD	4595	4655	
SAND & SHALE	GREY	SOFT	4655	4850	
SHALE	GREY	HARD	4850	5000	
SAND & SHALE	BROWN	SOFT	5000	5060	
BENSON	BROWN	SOFT	5060	5075	
SHALE & SAND	GREY	SOFT	5075	5281	
TD	BROWN	SOFT	5281		

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DEC 20 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

**STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION**

- 1) Well Operator: 847 STONEWALL GAS COMPANY 47850 (3) 670
- 2) Operator's Well Number: SANDY #7 3) Elevation: 1062'
- 4) Well type: (a) Oil  or Gas   
 (b) If Gas: Production  Underground Storage   
 Deep  Shallow
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5200' feet
- 7) Approximate fresh water strata depths: 100', 449', 222'
- 8) Approximate salt water depths: 1200', 1322
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"	ERW	42#	120'	120'	38-CSR 18-11.3
Fresh Water						ok 418.5
Coal						
Intermediate	8 5/8"	ERW	23#	1250'	1250'	38 CSR 18-11.3
Production	4 1/2"	ERW	10.5#	5200'	5200'	38 CSR 18-11.1
Tubing						
Liners						

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 SEP 21 1989

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

508  
 24 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-28  Bonds Blanket one  Agent

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SEP 21 1989

Date: SEPTEMBER 18, 1989  
Operator's well number  
SANDY #7 (425-S)  
API Well No: 47 - 017 - 3747  
State - County - Permit

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- |  |  |
|--|--|
| <p>4) Surface Owner(s) to be served:<br/>         (a) Name <u>I. K. SANDY HEIRS</u><br/>         Address <u>C/O DARRELL MC INTYRE</u><br/> <u>BOX 253 BURNSVILLE, WV 26335</u><br/>         (b) Name _____<br/>         Address _____<br/>         (c) Name _____<br/>         Address _____</p> | <p>5) (a) Coal Operator:<br/>         Name <u>N/A</u><br/>         Address _____<br/>         (b) Coal Owner(s) with Declaration<br/>         Name <u>SAME AS SURFACE</u><br/>         Address _____<br/>         Name _____<br/>         Address _____<br/>         (c) Coal Lessee with Declaration<br/>         Name _____<br/>         Address _____</p> |
| <p>6) Inspector <u>MIKE UNDERWOOD</u><br/>         Address <u>RT 2, BOX 135</u><br/> <u>SALEM, WV 26426</u><br/>         Telephone (304)- <u>782-1043</u></p>  |  |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:  
\_\_\_\_ Personal Service (Affidavit attached)  
X Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator STONEWALL GAS COMPANY  
By: [Signature]  
Its: PRESIDENT  
Address PO DRAWER R  
JANE LEW, WV 26378  
Telephone 304-884-7881

Subscribed and sworn before me this 18TH day of SEPTEMBER, 19 89

Richard K. Elson  
My commission expires OCTOBER 14, 1993 ~~XXXXXXXXXXXX~~  
COMMISSIONER